35-57

SONY® Transistor Radio Circuits 1

TFM 825

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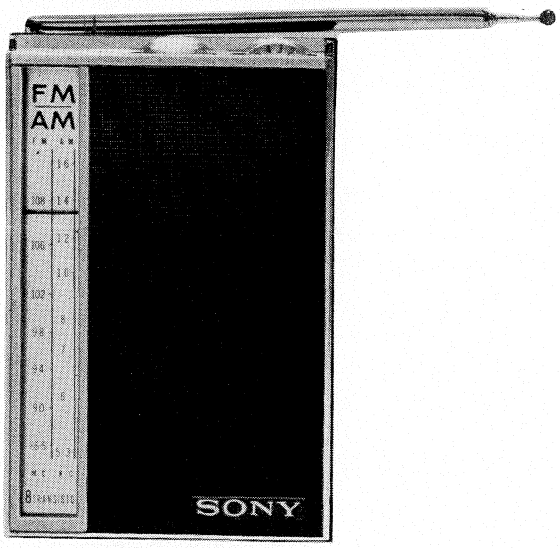


Specifications

Circuit :	8 Transistor Superheterodyne
Frequency Coverage :	MW 530～1,605 Kc (566～187 m)
	FM 86.5～108 Mc (3.53～2.78 m)
Intermediate Frequency :	MW 455 Kc FM 10.7 Mc
Antenna System :	MW Built-in Ferrite Bar Antenna
	FM Built-in Telescopic Antenna
	Auxiliary Antenna
Maximum Sensitivity :	MW 42 dB (125μV/m)
(at 10 mW output)	FM 15 dB (5.6μV/m)
Selectivity :	MW 23 dB at 10 Kc off resonance, at 1,400 Kc
Output Power :	120 mW (undistorted)
Current Drain :	7 mA (MW), 10 mA (FM) at zero signal,
	32 mA at 120 mW output
Speaker :	3″×2″ (7.5×5 cm)
	PM dynamic, 8 Ω
Battery :	Eveready 216 (BL-006P)
	or Equivalent (9 V)
Dimensions :	4-7/16″×2-7/8″×1-5/16″
	(113×73×34 mm)
Weight :	0.8 lbs. (0.38 Kg.)

Adjustments

a) Frequency Coverage Adjustment

	Lower Limit	Adjust	Upper Limit	Adjust
FM	85.5 Mc	Core and Gap of FM OSC Coil (L_{104})	109.5 Mc	FM OSC Trimmer (C_{104})
MW	520 Kc	Core of MW OSC Coil (L_{202})	1,680 Kc	MW OSC Trimmer (C_{204})

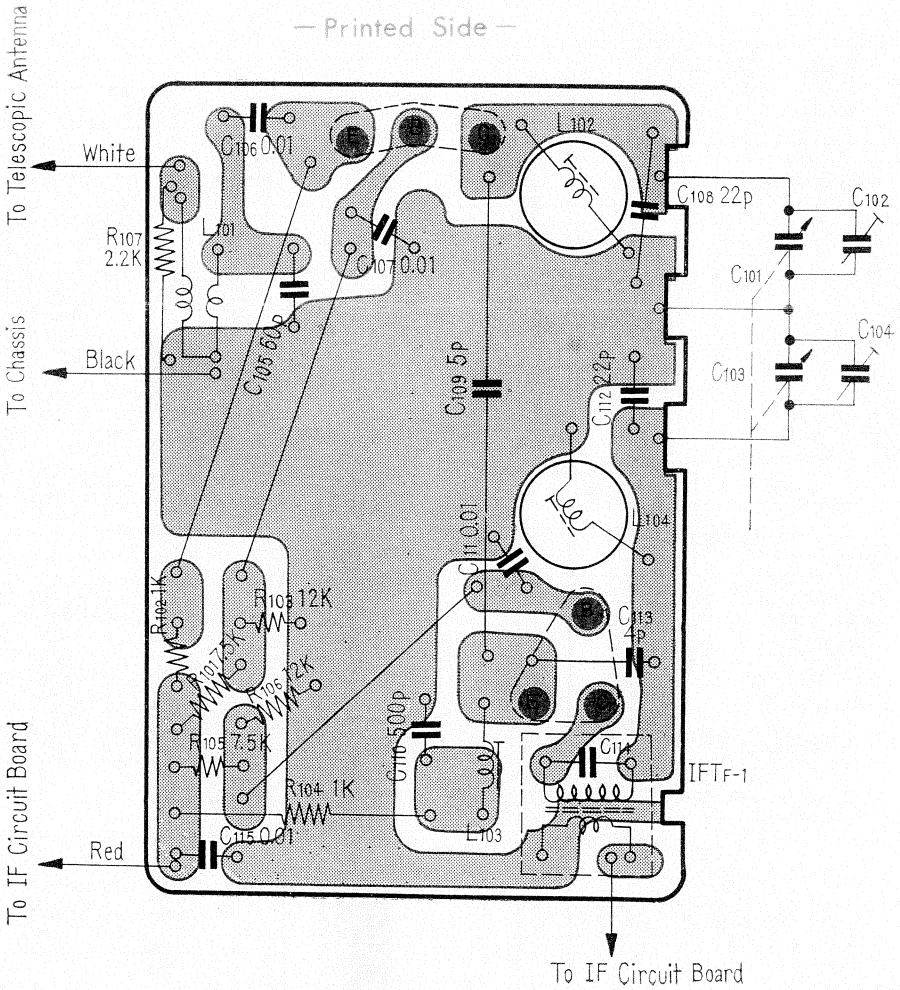
b) Tracking Adjustment

	Lower Checking Point	Adjust	Upper Checking Point	Adjust
FM	85.5 Mc	Core and Gap of FM RF Coil (L_{102})	109.5 Mc	FM RF Trimmer (C_{102})
MW	620 Kc	Position of MW ANT Coil (L_{201})	1,400 Kc	MW ANT Trimmer (C_{202})

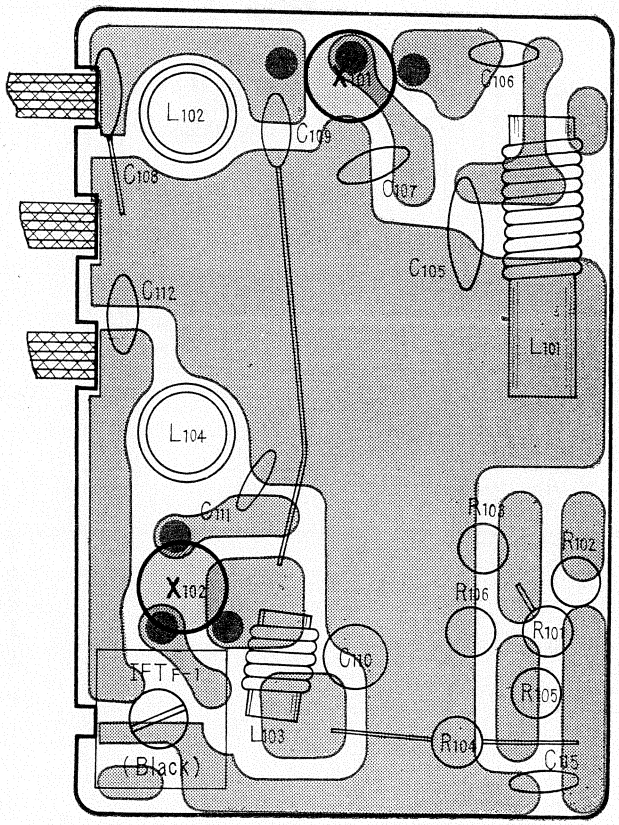
Mounting Diagram

Tuner Section

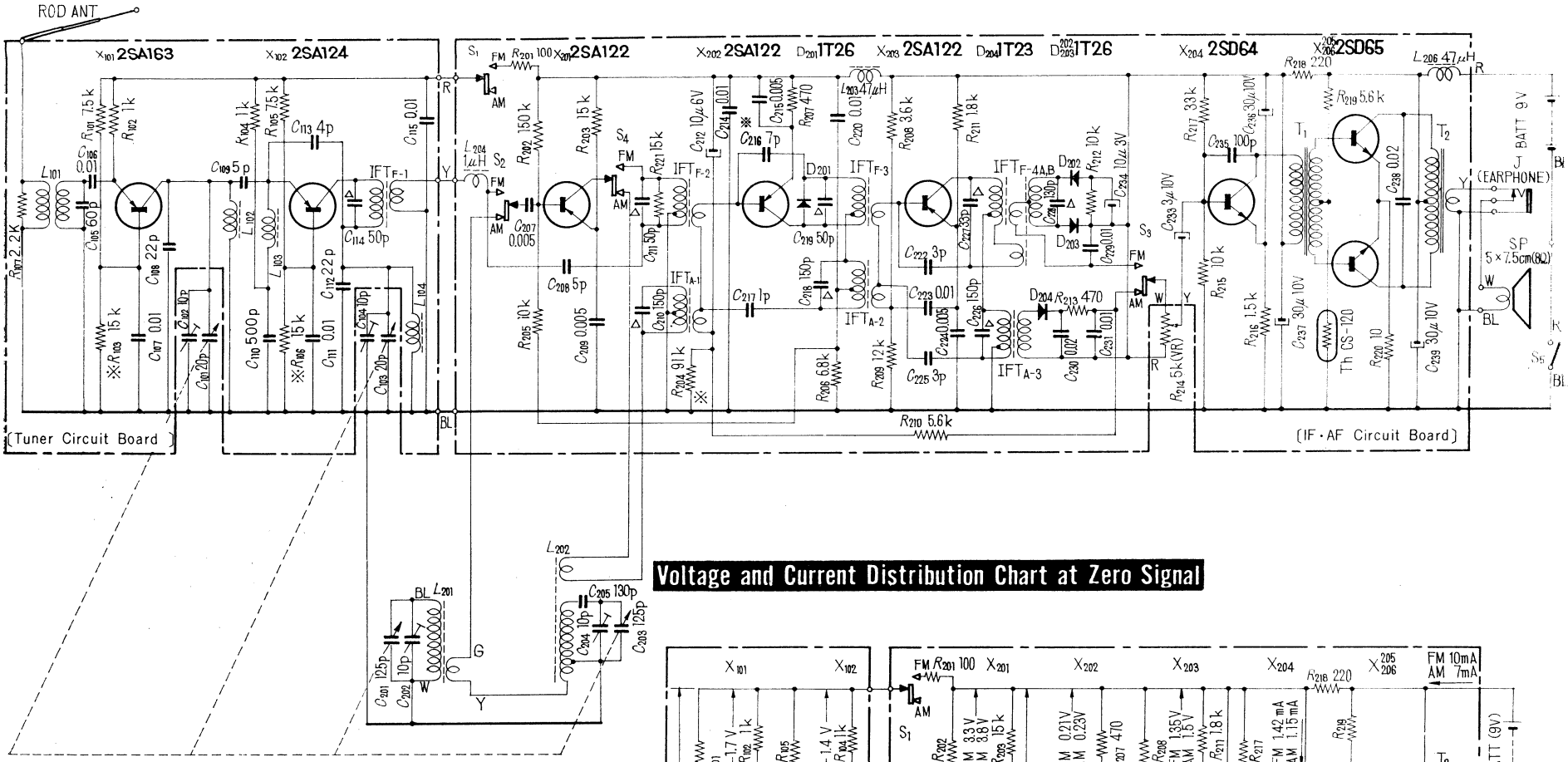
— Printed Side —



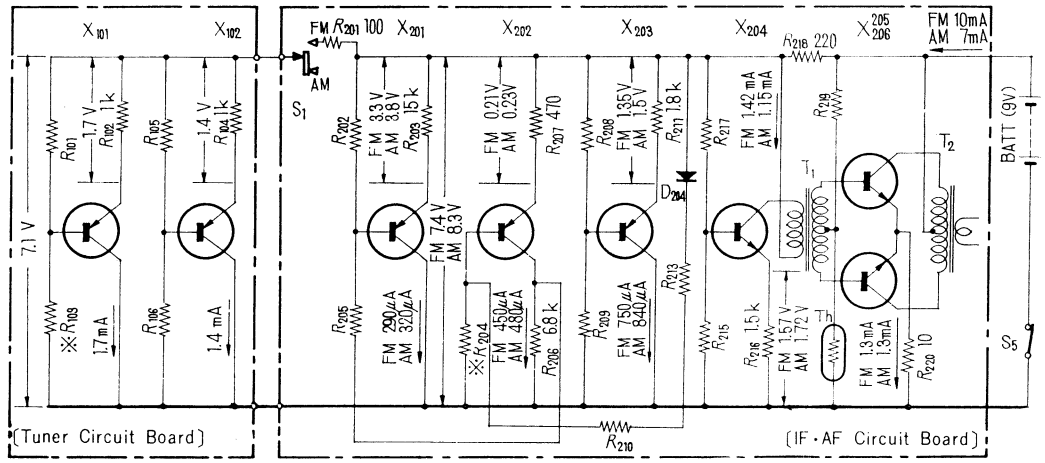
— Parts Side —



Schematic Diagram



Voltage and Current Distribution Chart at Zero Signal



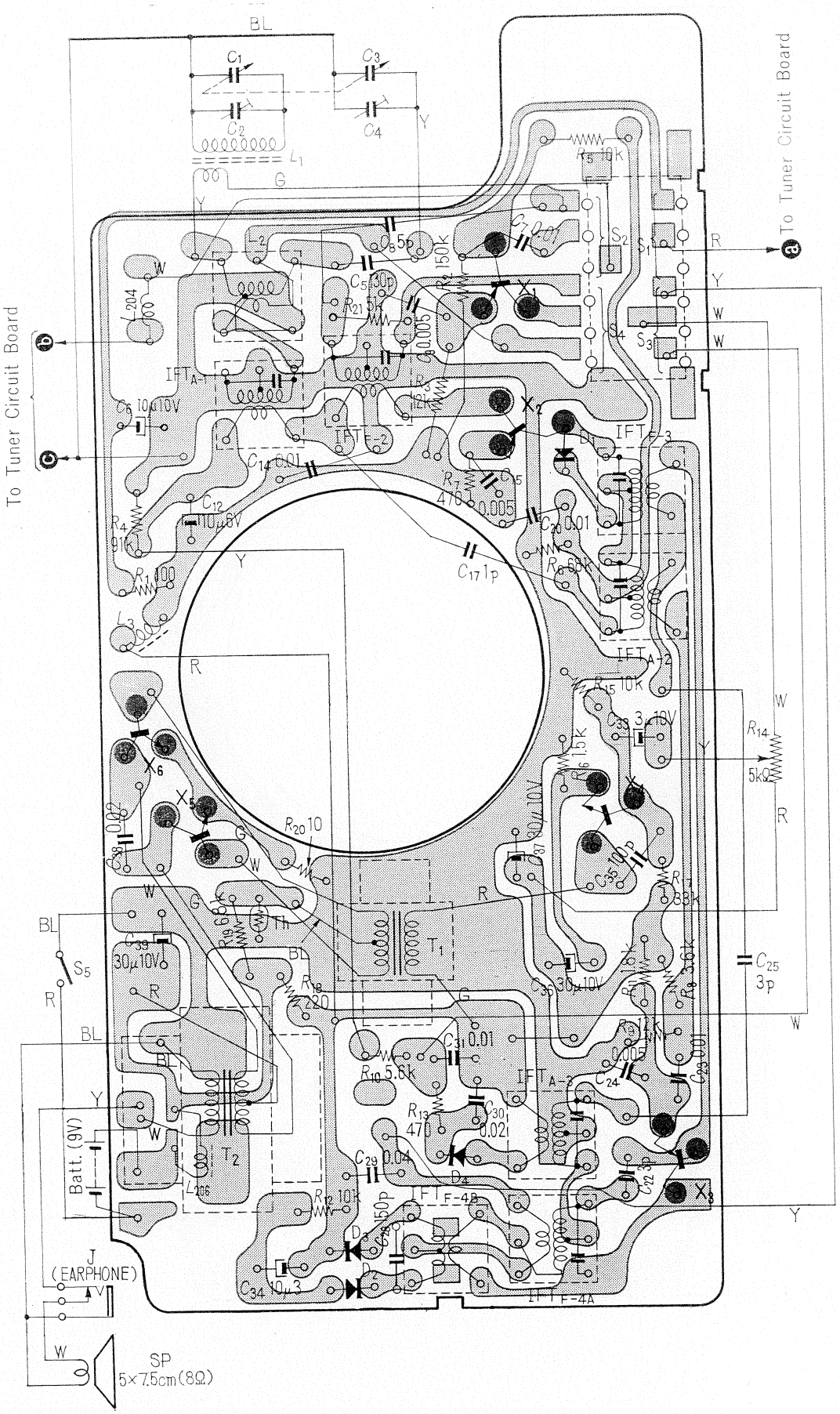
※ To be adjusted

Capacitors marked with △ are built in relative IF Transformers.

Mounting Diagram

IF・AF Section

— Printed Side —



Mounting Diagram

IF·AF Section

– Parts Side –